

**Amendments to the Claims:**

Claims 17-41 are cancelled and new claims 42-54 are added by this amendment, as reflected in the listing of claims below. This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Previously Presented) A *Muscodor* carrier formulation comprising:
  - a carrier,
  - a stabilizing agent, and
  - a culture of *Muscodor albus*,

wherein the culture and the stabilizing agent are adhered to the carrier.
2. (Previously Presented) The *Muscodor* carrier formulation of claim 1 wherein the carrier is grain.
3. (Previously Presented) The *Muscodor* carrier formulation of claim 2 wherein the grain is selected from the group consisting of corn, rye, barley, rice, wheat, oat bean, and soy.
4. (Previously Presented) The *Muscodor* carrier formulation of claim 1 wherein the carrier is absorptive material containing nitrogen and carbon sources.
5. (Previously Presented) The *Muscodor* carrier formulation of claim 1 wherein the stabilizing agent is a carbohydrate.
6. (Previously Presented) The *Muscodor* carrier formulation of claim 5 wherein the carbohydrate is selected from the group consisting of lactose, sucrose and trehalose.
7. (Previously Presented) The *Muscodor* carrier formulation of claim 5 wherein the carbohydrate is lactose.

8. (Previously Presented) The *Muscodor* carrier formulation of claim 1 further comprising a matrix wherein the carrier, culture, and stabilizing agent are encapsulated by the matrix.
9. (Previously Presented) The *Muscodor* carrier formulation of claim 8 wherein the matrix is a hydrogel.
10. (Previously Presented) A method for preparing a *Muscodor* carrier formulation comprising:
  - growing a culture of *Muscodor*;
  - inoculating a carrier with the culture of *Muscodor*;
  - adding a stabilizing agent to the carrier; and
  - drying the carrier.
11. (Previously Presented) The method of claim 10 wherein the stabilizing agent is a carbohydrate.
12. (Previously Presented) The method of claim 11 wherein the carbohydrate is selected from the group comprising sucrose, trehalose, and lactose.
13. (Previously Presented) The method of claim 12 wherein the carbohydrate is lactose.
14. (Previously Presented) The method of claim 10 wherein the carrier is a grain.
15. (Previously Presented) The method of claim 14 wherein the grain is selected from the group consisting of corn, rye, barley, rice, wheat, oat bean, and soy.
16. (Previously Presented) The method of claim 10 further comprising encapsulating the carrier before drying the carrier.
17. (Cancelled)
18. (Cancelled)
19. (Cancelled)

20. (Cancelled)

21. (Cancelled)

22. (Cancelled)

23. (Cancelled)

24. (Cancelled)

25. (Cancelled)

26. (Cancelled)

27. (Cancelled)

28. (Cancelled)

29. (Cancelled)

30. (Cancelled)

31. (Cancelled)

32. (Cancelled)

33. (Cancelled)

34. (Cancelled)

35. (Cancelled)

36. (Cancelled)

37. (Cancelled)

38. (Cancelled)

39. (Cancelled)
40. (Cancelled)
41. (Cancelled)
42. (New) A synthetic mixture comprising pesticidally effective amounts of at least two volatile organic compounds isolatable from at least one of an isolated culture of *Muscodor albus* grown on rye grain, an isolated culture of *Muscodor albus* grown on brown rice grit, and an isolated culture of *Muscodor albus* grown on potato dextrose agar.
43. (New) The synthetic mixture of claim 42 wherein the at least two volatile organic compounds are selected from the following group: 2-methyl-1-butanol, isobutyl alcohol, isobutyric acid, 3-methyl-1-butanol, 3-methylbutyl acetate, and ethyl propionate.
44. (New) The synthetic mixture of claim 42 wherein the at least two volatile organic compounds are selected from the following group: 2-methyl-1-butanol, isobutyl alcohol, methyl isobutyrate, isobutyric acid, 3-methyl-1-butanol, 3-methylbutyl acetate, and ethyl butyrate.
45. (New) The synthetic mixture of claim 42 wherein the at least two volatile organic compounds comprise isobutyric acid and at least one of 2-methyl-1-butanol, 3-methyl-1-butanol, isobutyl alcohol, ethyl propionate, ethyl butyrate and 3-methyl-1-butanol
46. (New) The mixture of claim 42 wherein the at least two volatile organic compounds comprise 3-methylbutyl acetate and propionic acid, 2-methyl, 3-methylbutyl ester.
47. (New) The mixture of claim 42 wherein the at least two volatile organic compounds comprise 2-methyl-1-butanol and at least two of isobutyl alcohol, ethyl propionate, and ethyl butyrate.
48. (New) The mixture of claim 42 wherein the at least two volatile organic compounds comprise ethyl butyrate, isobutyl alcohol, and ethyl propionate.

49. (New) The mixture of claim 42 wherein the at least two volatile organic compounds comprise 2-methyl-1-butanol, ethyl butyrate, isobutyl alcohol, phenethyl alcohol, ethyl isobutyrate, 2-methylbutyl acetate, and isobutyric acid.
50. (New) The mixture of claim 42 wherein the at least two volatile organic compounds comprise 3-methyl-1-butanol, ethyl butyrate, isobutyl alcohol, phenethyl alcohol, ethyl isobutyrate, and isobutyric acid.
51. (New) A method for inhibiting the growth of organisms selected from the group consisting of microbes, insects, and nematodes comprising exposing the organism or a habitat of the organism to the synthetic mixture of claim 42.
52. (New) A method for inhibiting the growth of organisms selected from the group consisting of microbes, insects, and nematodes comprising exposing the organism or a habitat of the organism to the synthetic mixture of claim 43.
53. (New) A method for inhibiting the growth of organisms selected from the group consisting of microbes, insects, and nematodes comprising exposing the organism or a habitat of the organism to the synthetic mixture of claim 44.
54. (New) A method for inhibiting the growth of organisms selected from the group consisting of microbes, insects, and nematodes comprising exposing the organism or a habitat of the organism to the synthetic mixture of claim 45.
55. (New) A method for inhibiting the growth of organisms selected from the group consisting of microbes, insects, and nematodes comprising exposing the organism or a habitat of the organism to the synthetic mixture of claim 46.
56. (New) A method for inhibiting the growth of organisms selected from the group consisting of microbes, insects, and nematodes comprising exposing the organism or a habitat of the organism to the synthetic mixture of claim 47.

57. (New) A method for inhibiting the growth of organisms selected from the group consisting of microbes, insects, and nematodes comprising exposing the organism or a habitat of the organism to the synthetic mixture of claim 48.
58. (New) A method for inhibiting the growth of organisms selected from the group consisting of microbes, insects, and nematodes comprising exposing the organism or a habitat of the organism to the synthetic mixture of claim 49.
59. (New) A method for inhibiting the growth of organisms selected from the group consisting of microbes, insects, and nematodes comprising exposing the organism or a habitat of the organism to the synthetic mixture of claim 50.
60. (New) The method of claim 51 wherein the habitat of the organism is selected from the group consisting of fruit, seed, plant, and soil.
61. (New) The method of claim 51 wherein the organism is toxic mold and the habitat of the organism is selected from the group consisting of building materials, spaces between building materials, and buildings.
62. (New) A method for treating or protecting fruit, seeds, plants, and soil from infestation with organisms selected from the group consisting of microbes, insects, and nematodes comprising exposing the fruit, seed, plant or soil to an effective amount of a volatile organic compound selected from the group consisting of 3-methylbutyl acetate, 3-methyl-1-butanol, isobutyl alcohol, methyl 2-methylbutyrate, methyl isobutyrate, less than 2500 ppm 2-methyl-1-butanol and less than 2800 ppm isobutyric acid.
63. (New) A method for treating or preventing toxic mold in building materials and buildings by exposing the building, the building materials, or spaces between the building materials to an effective amount of a volatile organic compound selected from the group consisting of 3-methylbutyl acetate, 3-methyl-1-butanol, isobutyl alcohol, methyl 2-methylbutyrate, methyl isobutyrate, less than 2500 ppm 2-methyl-1-butanol and less than 2800 ppm isobutyric acid.